TKH AIRPORT SOLUTIONS

Installation and Maintenance Instructions

Inset light 12”

LED AGL

Airfield Ground Lighting

03-71084
V2.10

Preface

- Please read carefully and understand the contents of this manual.
- Failure to read the manual may result in serious injury, or serious damage to equipment.
- Make sure these instructions are always accessible for all users and ensure that you have read and understood the contents.

Document Information

Name : **05_LED_AGL_Installation_instruction_12-inch_inset_lights_03-71084**

Version	Date	Description
V2.3	27-11-2023	Original
V2.4	09-07-2024	Added instructions to perform leakage test after opening and closing fixture
V2.5	20-05-2025	Updated Leakage test instructions
V2.6	26-02-2026	Added FAA models, spare parts list, VA ratings, wiring diagrams and IP test conditions
V2.7	17-03-2026	Updated power consumption data
V2.8	21-04-2026	Updated chapter 5 Maintenance
V2.9	25-06-2026	Updated chapter 6.1.1 Optional tools available to order
V2.10	13-10-2026	Updated chapter 3 General Recommendations

The English version of this document is the original version; this language version is verified by the manufacturer. All other language versions are translations of the original English language version. For the latest version of this document see https://www.tkh-airportsolutions.com/airfield-products/ or scan:

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1. About this manual

This manual contains information about the installation and maintenance of the LED-AGL Inset light 12”.

1.1 Symbols used

The following marking conventions are used in this manual to draw attention to specific topics or actions:

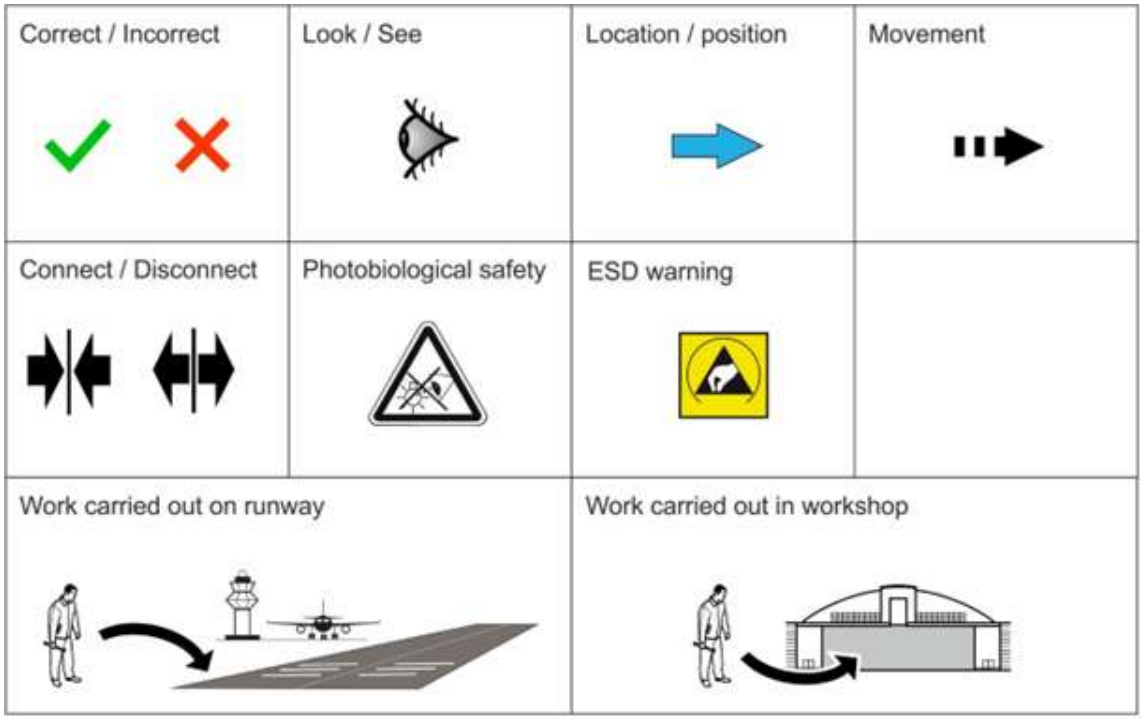
DANGER! - This sign indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING - This sign indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION - This sign indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE - is used in this manual to indicate a situation that could result in damage to property or equipment.

The following symbols are used in pictures for explanation or an action:



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The following symbols are used on equipment and in this manual to warn of potential hazards:

DANGER of electrical shock or arc flash. Failure to observe this warning will result in serious injury or death.

WARNING or **CAUTION**: where this symbol is used on the equipment, it is mandatory to consult the manual to find out the nature of potential hazards and any actions which have to be taken to avoid them.

1.2 Storing the manual

- This manual is a part of your product. Store the manual in a location that can be easily accessed by personnel working on the product.
- It is the responsibility of the company operating this equipment to ensure that its personnel is provided with a copy of this manual.

1.3 Limitations of the Document

TKH Airport Solutions reserves the right to revise this document without notification.

The data provided in this document is based on the most recent information at the time of publication. TKH Airport Solutions is continually seeking to ensure that its products are developed to the latest technological standards. As a result, it is possible that there may be some differences between the product and the information in this manual.

For further information regarding adjustment, maintenance or repair which is not described in this document, please contact the Customer Service department of TKH Airport Solutions.

The information in this document concentrates solely on use of the products as intended by the manufacturer.

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1.4 Terms and Abbreviations

This document may include the terms and abbreviations as listed below.

AGL	Airfield Ground Lighting
EASA	European Aviation Safety Agency
ICAO	International Civil Aviation Organization
IEC	International Electrotechnical Committee
FAA	Federal Aviation Administration
LED	Light Emitting Diode

1.5 Liability and Warranty

TKH Airport Solutions cannot be held responsible for injuries or damage resulting from non-standard, unintended use, faulty or improper installation of its equipment, or failure to follow the instructions and safety guidelines in this manual. The safety of any system incorporating the LED-AGL Inset light 12” is the responsibility of any site installation, commissioning, maintenance, and operational personnel using the system.

NOTICE

Disregarding the safety instructions in this manual will result in the loss of warranty in case of damage.

Refer to the general TKH Airport Solutions Terms and Conditions document supplied with your sales order contract for a complete liability and warranty description.

1.6 Manufacturer Details

TKH Airport Solutions

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7483 PG Haaksbergen
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- Tel.: +31 (0)53 5741456
- Email: info@tkh-airportsolutions.com
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For service requests, please contact the TKH Airport Solutions Customer Service department:

- Email: service@tkh-airportsolutions.com

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2. Safety

2.1 Safety

This section contains general safety instructions for using your TKH Airport Solutions equipment. Some safety instructions may not apply to the equipment in this manual. Note all warnings and follow all instructions carefully. Failure to do so may result in personal injury, death, or property damage.

To use this equipment safely,

- Refer to the International Standard IEC 61820, Electrical installation for lighting and beaconing of aerodromes - Constant current series circuits for aeronautical ground lighting - System design and installation requirements, and to the International Standard IEC 61821, Electrical installations for lighting and beaconing of aerodromes - Maintenance of aeronautical ground lighting constant current series circuits for instructions on safety precautions.
- Observe all safety regulations. To avoid injuries, always remove power prior to making any wire connections and touching any live part. Refer to the International Standards IEC 61820 & IEC 61821.
- Read and become familiar with the general safety instructions provided in this section of the manual before installing, operating, maintaining, or repairing this equipment.
- Read and carefully follow the instructions given throughout this manual for performing specific tasks and working with specific equipment.
- Store this manual within easy reach of personnel installing, operating, maintaining, or repairing this equipment.
- Follow all applicable safety procedures required by your company, industry standards, and government or other regulatory agencies.

2.2 Qualified Personnel

The term "qualified personnel" is defined here as a person who thoroughly understands the equipment and its safe installation, operation, maintenance, and repair. Qualified personnel are physically capable of performing the required tasks, familiar with all relevant safety rules and regulations, and have been trained to safely install, operate, maintain, and repair the equipment. It is the responsibility of the company installing, operating or maintaining this equipment to ensure that its personnel meet these requirements.

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2.3 Intended use

Use of this equipment in ways other than described in the datasheet and this manual may result in personal injury, death, or property damage. TKH Airport Solutions cannot be held responsible for injuries or damage resulting from non-standard, unintended application of its equipment. This equipment is designed and intended only for the purpose described in this manual. Uses not described in this manual are considered to be unintended use. Unintended use may result from taking the following actions:

- making changes to equipment that have not been recommended or described in this manual or using parts that are not genuine TKH Airport Solutions replacement parts or accessories
- using materials or auxiliary equipment that are inappropriate or incompatible with your TKH Airport Solutions equipment
- allowing unqualified personnel to perform any task

2.4 Installation

A thorough understanding of system components and their requirements will help you install the system safely and efficiently. Failure to follow these safety procedures can result in personal injury or death.

Read the safety and installation sections of all system component manuals before installing your equipment.

- Allow only qualified personnel to install TKH Airport Solutions equipment and auxiliary equipment. Use only approved equipment. Using unapproved equipment in an approved system may void agency approvals and will void the warranty.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- Follow all instructions for installing components and accessories.
- Do not hold or carry the light assemblies by the cables.
- Install all electrical connections according to to local codes and regulations, provided they are not in contradiction with the general rules.
- Use only electrical wire of sufficient gauge and insulation to handle the rated current and voltage demand. All wiring must meet local codes.
- Route electrical wiring along a protected path. Make sure the wires will not be damaged by moving equipment and animals (e.g. rodents).
- Protect components from damage, wear, and harsh environmental conditions.
- Allow sufficient room for maintenance, panel accessibility (power products), and cover removal (power products).
- Protect equipment with safety devices as specified by applicable safety regulations.
- If safety devices must be removed for maintenance, re-install them immediately after the work is completed and check them for proper functioning.

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2.5 Operation

Only qualified personnel (see section Qualified Personnel) should operate this equipment. Read all system component manuals before operating this equipment. A thorough understanding of system components and their operation will help you operate the system safely and efficiently.

- Before starting this equipment, check all safety interlocks, fire-detection systems, and protective devices such as panels and covers. Make sure all devices are fully functional. Do not operate the system if these devices are not working properly. Do not deactivate or bypass automatic safety interlocks or locked-out electrical disconnects or pneumatic valves.
- Never operate equipment with a known malfunction.
- Do not attempt to operate or service electrical equipment if standing water is present.
- Use this equipment only in the environments for which it is rated. Do not operate this equipment in humid, flammable, or explosive environments unless it has been rated for safe operation in these environments.
- Never touch exposed electrical connections on equipment while the power is ON.
- Never look directly in the light source while the power is ON.
- For fixtures/spare parts marked with the photobiological safety symbol avoid prolonged staring in the switched ON fixture.

2.6 Action in the event of a system or component malfunction

Do not operate a system that contains malfunctioning components. If a component malfunctions, turn the system OFF immediately.

- Disconnect and lock out electrical power.
- Allow only qualified personnel to make repairs. Repair or replace the malfunctioning component according to instructions provided in its manual. Allow only qualified personnel to perform maintenance, troubleshooting, and repair tasks. Only persons who are properly trained and familiar with TKH Airport Solutions equipment are permitted to service this equipment.
- Follow the recommended maintenance procedures in your equipment manuals.
- Connect all disconnected equipment ground cables and wires after servicing equipment. Ground all conductive equipment.
- Use only approved TKH Airport Solutions replacement parts. Using unapproved parts or making unapproved modifications to equipment may void agency approvals, impair specified performance and create safety hazards.
- Check interlock systems periodically to ensure their effectiveness.
- Do not attempt to service electrical equipment if standing water is present. Use caution when servicing electrical equipment in a high-humidity environment.
- Use tools with insulated handles when working with electrical equipment.
- Make sure to perform a leakage test, as explained in chapter 6.8, everytime a fixture is opened and closed

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3. General Recommendations

3.1 Receiving, Storage and Unpacking

1 Upon receipt of goods at the site store, check all packaging for visible damage. Every damaged box should be opened and its contents inspected for damage. If equipment is damaged, a claim form shall be filled with the carrier immediately. It may then be necessary for the carrier to inspect the equipment.

2 Store the light assembly preferably in its original packaging in a protected area. When stored unpacked, please take care not to damage the cable insulation.

3 Unpack the light assembly at the installation site to avoid damage during transportation and handling.

3.2 Electrical Connection

The light assemblies covered by this manual are designed for connection to 6.6-A series circuits via one or two L-830 or L-831 series transformers. The current to the light should not exceed 6.6 A + 5%. The series transformers are to be ordered separately.

3.3 Base Earthing

Whatever the chosen installation method, it is strongly recommended to earth the base, especially in locations presenting a risk of lightning strikes. Failure to earth the base correctly will void the warranty for all damages occurring as a result of voltage surges.

3.4 Component Reuse and Recycling

Extending the service life of components typically requires significantly less energy than manufacturing equivalent new parts. As a result, prioritizing re-use can help lower lifecycle greenhouse gas emissions by avoiding energy- and carbon-intensive primary production.

Our products are engineered to support component re-use and recycling to reduce waste and conserve resources throughout its lifecycle. Key design and end-of-life considerations include:

- **Design for re-use**: Components are intended to be recoverable and suitable for re-use where appropriate, helping retain material value and reduce replacement demand.
- **Design for recycling**: Material selection and product documentation are aligned to enable efficient separation and recycling at end of life, supporting higher recovery rates and better material quality.
- **Reduced disposal impacts**: Proper recycling and re-use reduce disposal volumes and the corresponding environmental impacts.
- **Lower demand for virgin materials**: By increasing re-use and recycling, lifecycle impacts can be reduced through decreased reliance on virgin raw materials and minimized end-of-life burdens.

By enabling practical re-use and recycling pathways, our products support progress toward internal sustainability targets and helps customers meet ESG expectations related to waste reduction, resource efficiency, and circular economy performance.

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4. About the Inset light 12”

TKH Airport Solutions LED Inset lights 12” are constructed mainly by using standard components from TKH Airport Solutions standard program of inset lights. There are many variants available for approach, runway and taxiway use.

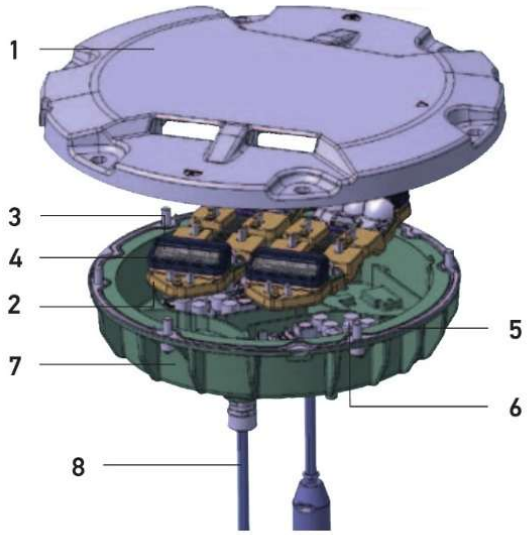
4.1 Inset light 12” description

TKH Airport Solutions inset lights are efficient and high-performing LED lights, providing at least 50,000 hours of service life at full 6.6A operation. The LED light fixtures have a simplified modular construction, consisting of five main components:

- Aluminum forging cover plate, with mechanical load capabilities exceeding FAA requirements
- Interchangeable LED light module
- Electronic driver board with housing
- Borosilicate glass prism with optional sapphire glass
- Secondary cable in accordance with FAA or ICAO requirements

		Component
1.	**Cover**	Cover (drop forged AL, anodised)
2.	**LED Module**	High power LED modules
3.	**Prism**	Prism (borosilicate glass)
4.		Sealing aperture (Fluor silicate)
5.	**Electronic Housing Group**	Sealing - housing ((Fluor silicate)
6.		Electronics
7.		Housing (Aluminium, die-cast)
8.		FAA L-823 plug

(Bi-directional variant shown in illustration)



A detailed spare parts list can be found in Chapter 7.

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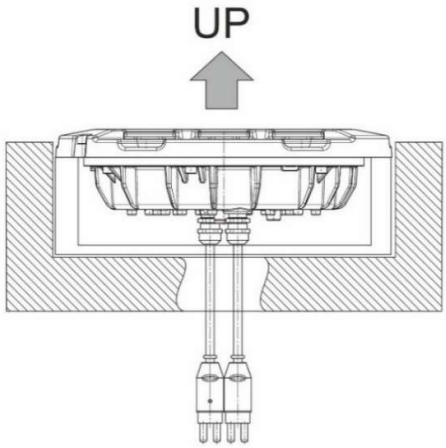
4.2 General specifications

Nominal AC frequency:	40-70 Hz
Operation on constant current source:	max. 6.6 A
Ambient temperature:	-40ºC (40ºF) / +75ºC (+167°F)
Weight: approx.	5.8 kg
Dust and water tightness:	IP68, IP69 IP6X (Dust test) passed *Test dust:* *Arizona dust A2* *Flow direction:* *Vertical* *Test duration:* *5 hours* IPX8 (continuous submersion) test passed *Water level:* *1,00 m* *Exposure time:* *30 minutes* *Water temperature:* *(23 ±5)°C* IPX9 (high pressure cleaning) test passed *Water flow:* *(15 ± 1) l/min* *↔ nozzle-specimen:* *(175 ± 25) mm* *Water temperature:* *(80 ±5)°C*
Operation position must be according the drawing (note: drawing is indicative only):	

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4.3 Operation Information

The LED-AGL Inset lights 12” are for outdoor use only for dedicated airfield installation. The power consumption and rated voltage are different for each function of the Inset lights 12”. Optionally, the inset lights can be supplied with heating. Refer to the tables below.

4.3.1 ICAO/EASA functions

Per side of inset lights 12 inch[1]								
Light	**Function**	**Colour**	**Max. power consumption fixture (W)**		**Apparent power fixture (VA)**		**Max. rated voltage fixture (VAC)**	
			standard	with heating	standard	with heating	standard	with heating
APH	Approach	White	94	122	99	128	15	19
SR	Side Row	Red	56	84	59	88	9	13
THR	Threshold	Green	53	80	56	84	9	13
THRW	Threshold Wing Bar	Green	108	135	114	142	17	21
THRE	Combined Threshold/ Runway End (4-eyes)	Green Red	32 36	46 50	34 38	48 53	5 6	8 8
THRE-V2	Combined Threshold/ Runway End (5-eyes)	Green Red	53 22	80 35	56 23	84 37	9 4	13 6
REH	Runway Edge	White Yellow Red	50 21 47	64 35 61	53 22 49	67 37 64	8 4 8	10 6 10
RWE	Runway End	Red	38	52	40	55	6	8

[1] = Power consumption is for the fixture only, per side/color. Cable losses, transformer efficiency etc. are not included.

4.3.2 FAA functions

Per side of uni-/bidirectional inset lights 12 inch[1]						
Light	**Function**	**Colour**	**Max. power consumption fixture (W)**	**Apparent Power fixture (VA)**	**Max. power consumption primary (W)** Primary side of transformer	**Apparent Power primary (VA)** Primary side of transformer
L-850C	Runway Edge, displaced threshold	White Red Yellow	36 18 29	38 19 31	51 25 45	57 28 49
L-850D	Runway Threshold/End	Green Red	18 25	19 26	25 35	28 39
L-850E	Medium Intensity Approach Lighting System; Runway Threshold	Green	32	34	45	50

[1] = Power consumption is for the fixture only, per side/color. Cable losses, transformer efficiency etc. are not included.

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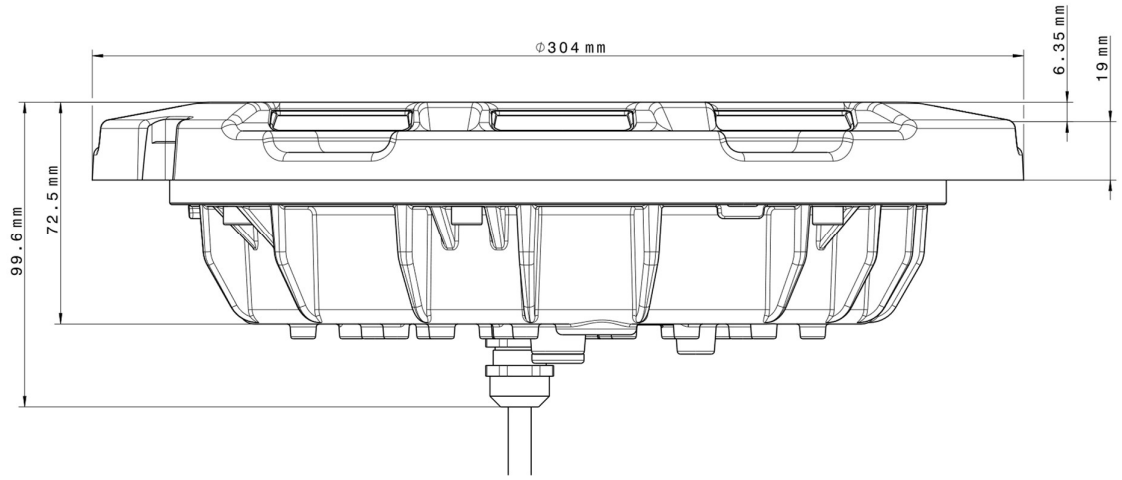
4.4 Accessories

Optional accessory:

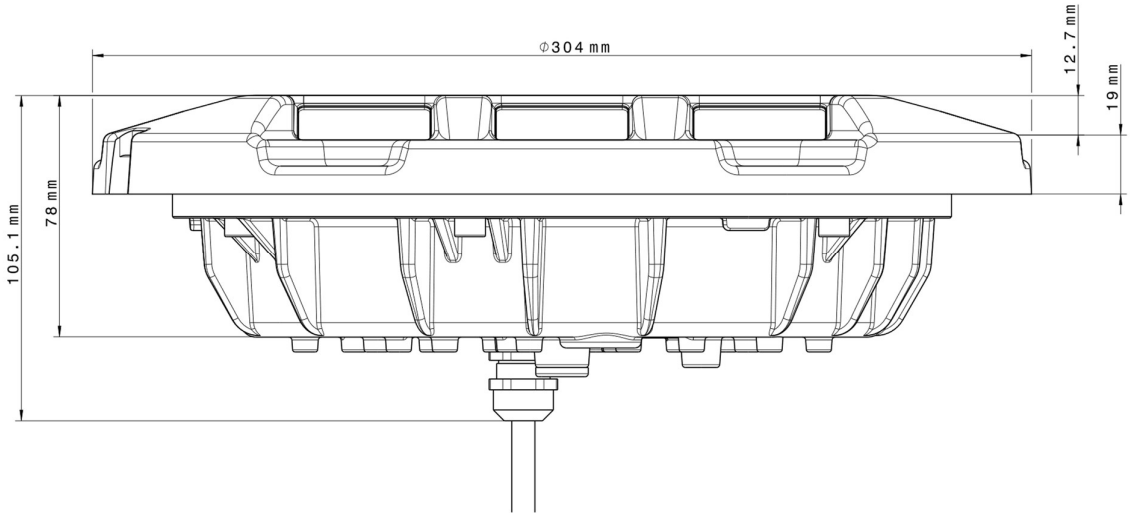
- Transformer
- Shallow base

4.5 Dimensions

For all 12” inset lights except Approach and Side Row:



For 12” inset lights Approach & Side Row:



NOTICE Drawings above are indicative only.

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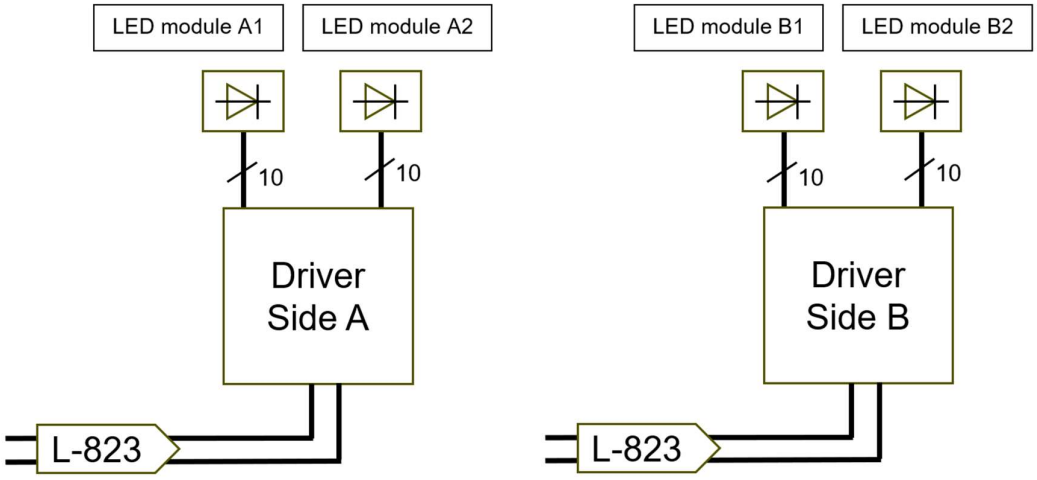
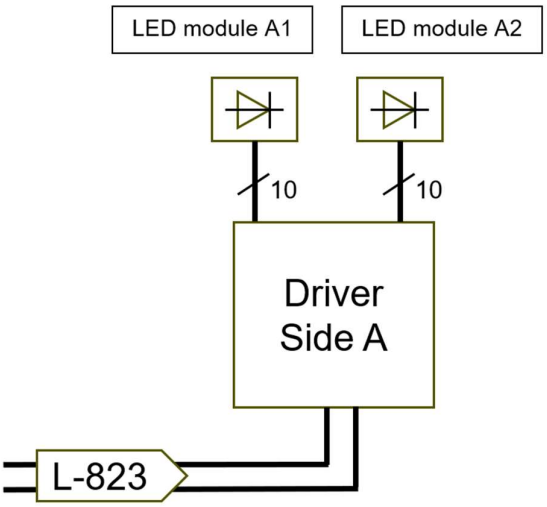
4.6 Wiring Diagrams FAA models

L-850C/D



L-850E



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5. Maintenance Recommendations

5.1 Warranty Limitation

The light assemblies are delivered fully tested and sealed. In case of malfunctioning during the warranty period, the defective light shall be shipped back to TKH Airport Solutions without opening it. Any attempt to open the light during the warranty period will void the warranty.

The prisms are not included in the warranty.

5.2 Preventive Maintenance

Maintenance frequency depends on the conditions under which the runway is used (i.e. climate, traffic, etc.). The recommended practices for maintenance are described in the FAA advisory circular no. AC 150/5340-26 and in the ICAO Aerodrome Design Manual, Part 9 Airport Maintenance Practices

TKH Airport Solutions recommends performing the following preventive maintenance activities

Frequency	Preventive maintenance activity
Daily	• Check the correct operation of the fixture; repair in case of any malfunction
Weekly	• Visually inspect each light fixture for damage, loose parts, or abnormal condition • Clean the front glass and remove dust/dirt from the fixture
Monthly	• Inspect the optical window/prism for cleanliness, mechanical damage, and any moisture or condensation inside the prism • Check mounting bolts for correct torque; re-torque to the specified value if required
Yearly	• Perform a detailed inspection of the light fixture • Check for mechanical damage such as prism cracks • Clean the optical windows • Inspect the lights for toe-in adjustment if applicable
As needed (incidentally)	• After snow removal operations, inspect fixtures for damage. Replace any damaged fixtures, and return them for investigation and repair.

5.3 Corrective Maintenance

When a light malfunctions, components can be replaced. Refer to chapter 6 for a detailed description.

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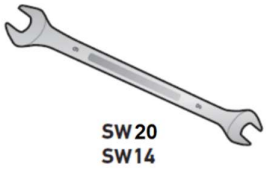
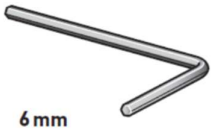
6. Installation and maintenance instructions

6.1 Tools Required





Non-caustic cleaning agent

6.1.1 Optional tools available to order

Tool set (302.311) for repair and maintenance of inset lights containing:

- Torque wrench
  - 14-204 Nm
  - 1/2 inch drive
- Torque wrench set
  - 2.3 – 27.1 Nm
  - 1/4 inch drive
  - Including accessories
- 1 manual wrench 14 mm
- 1 manual wrench 20 mm

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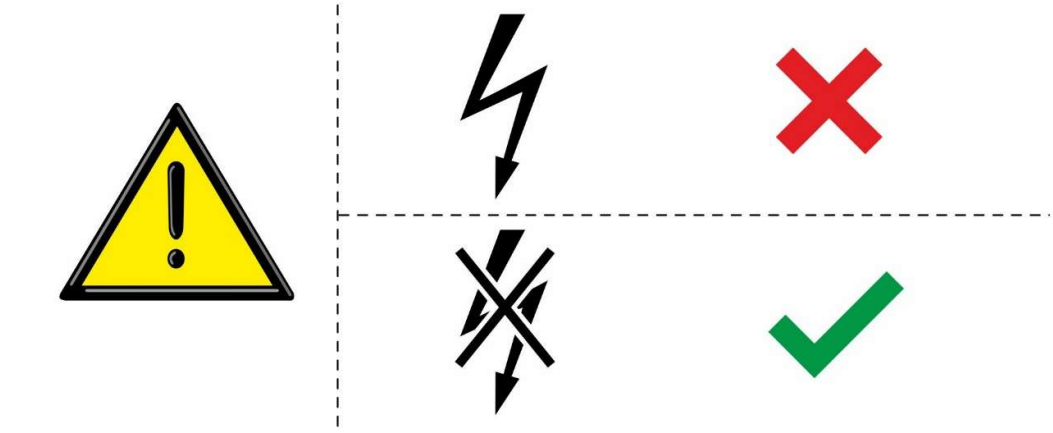
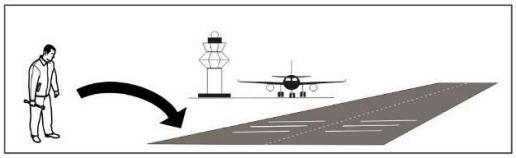
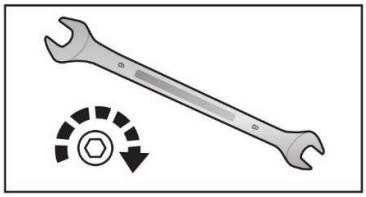
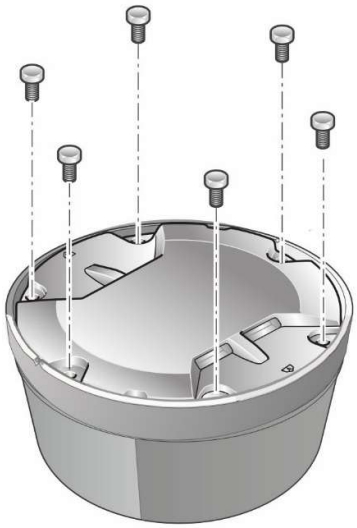
6.2 Installation









NOTICE

Tighten the nuts with a torque wrench. See specification of the shallow base manufacturer.

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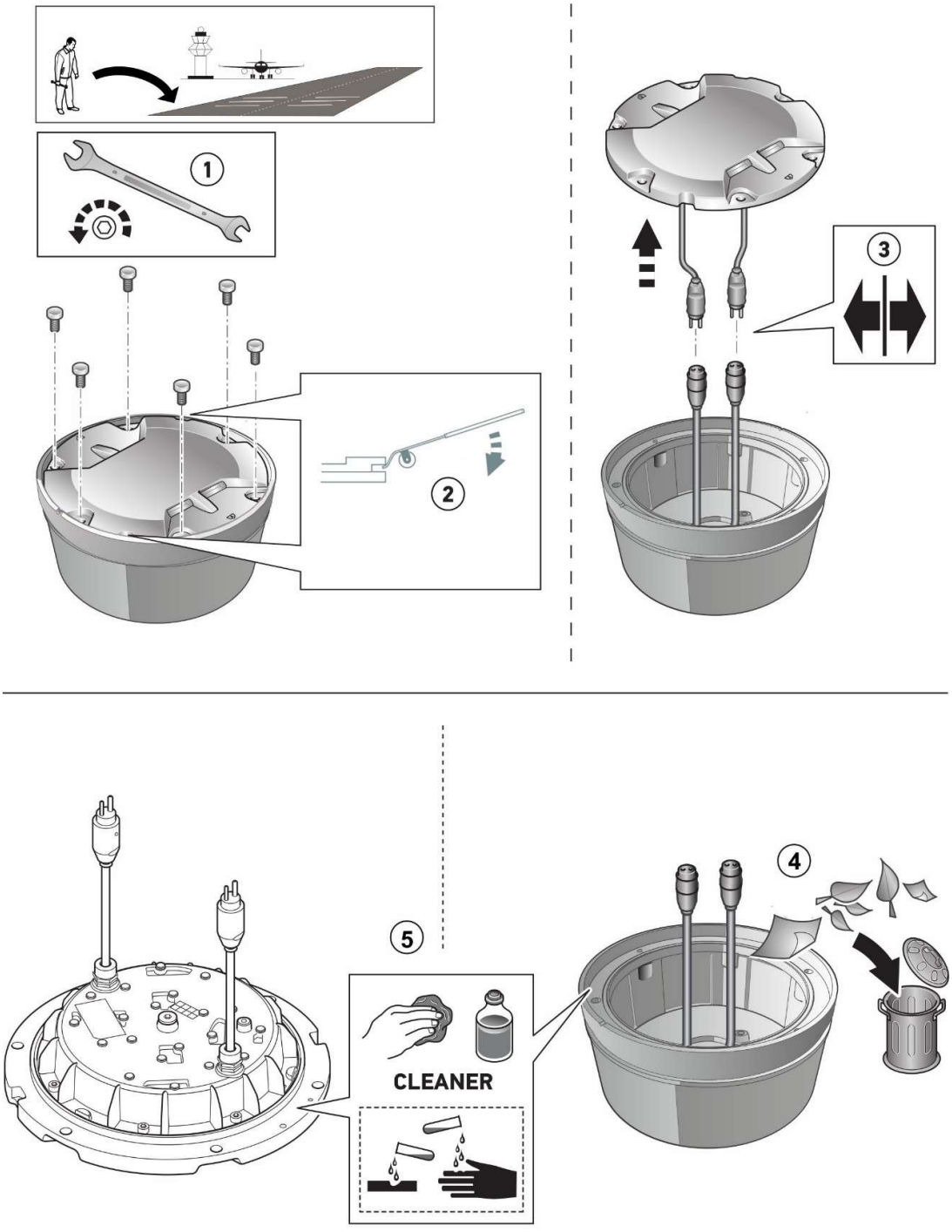
6.3 Work carried out on runway - cleaning



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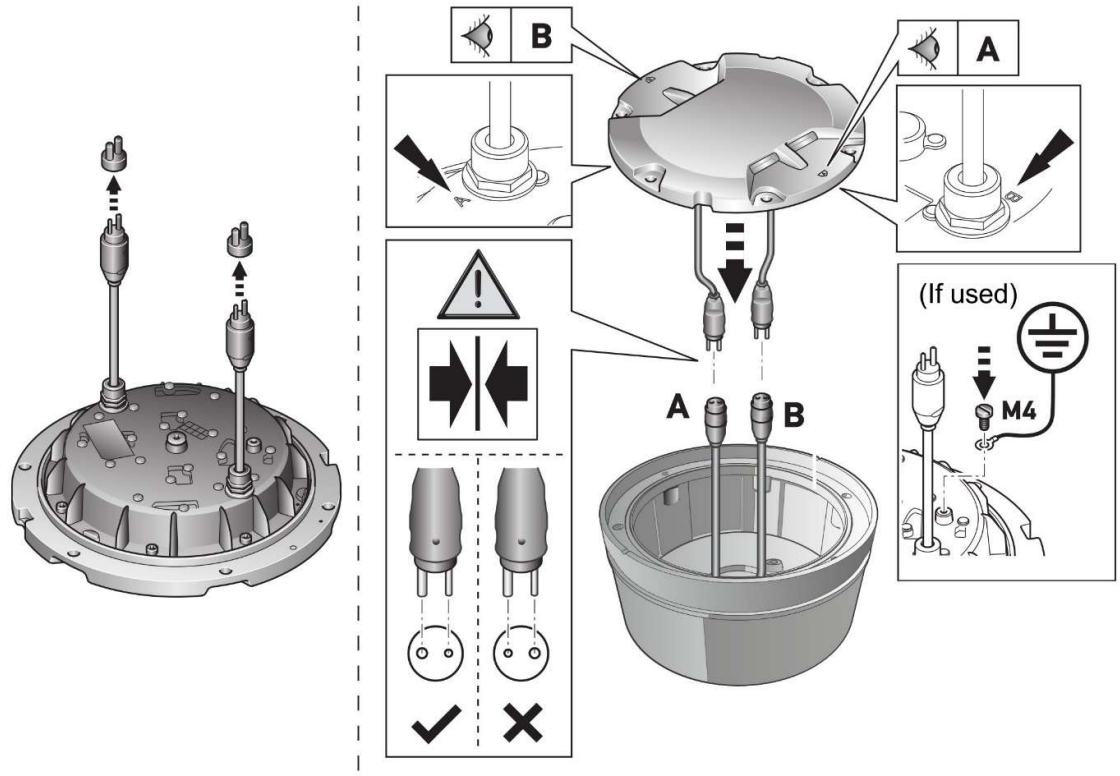

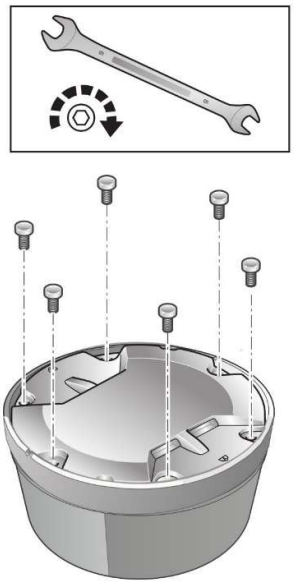

NOTICE

Tighten the nuts with a torque wrench. See specification of the shallow base manufacturer.

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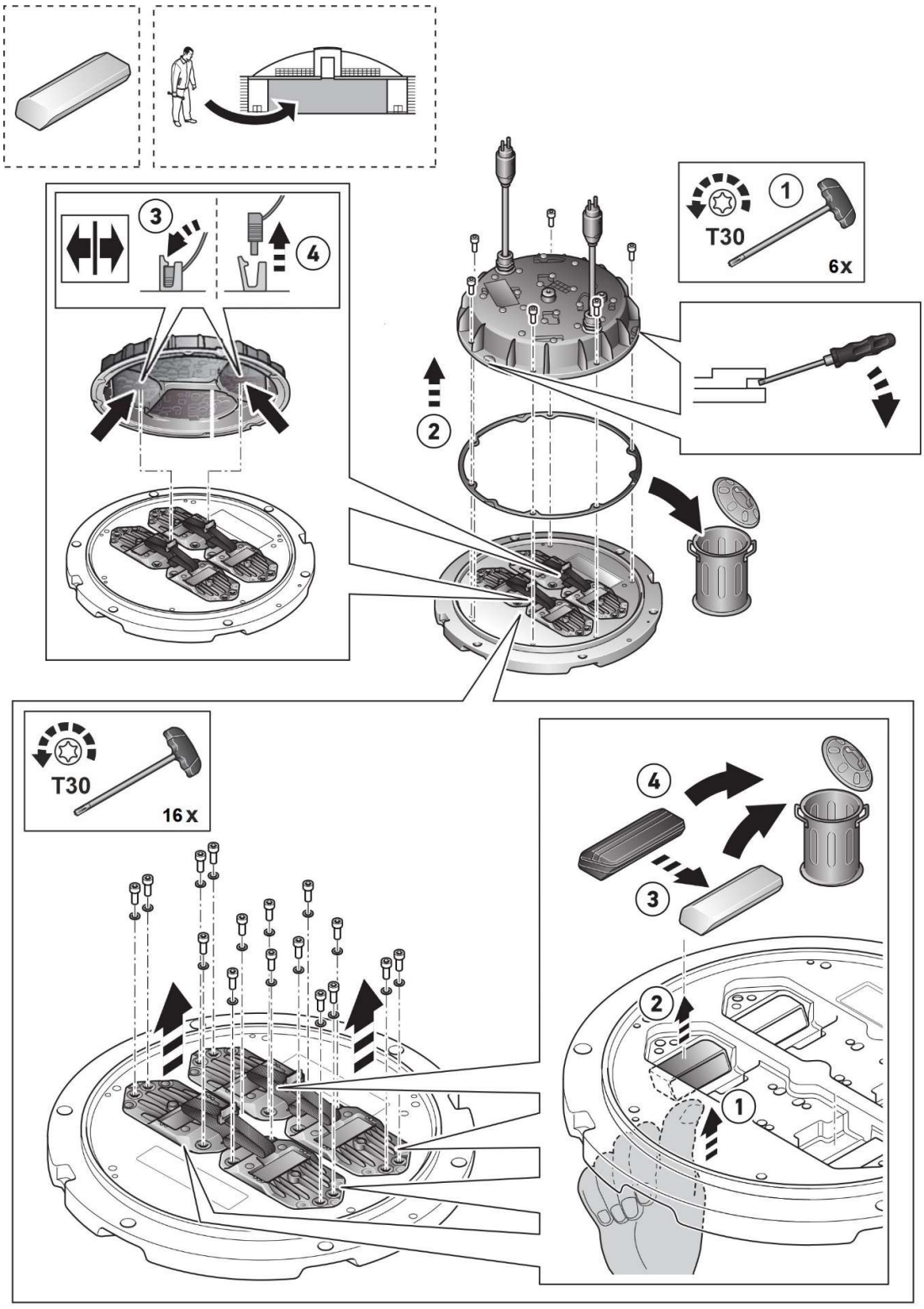
6.4 Replacing the prism

NOTICE

Follow the instructions carefully and only disconnect the cables as shown in these pictures. Do not disconnect any other cables!



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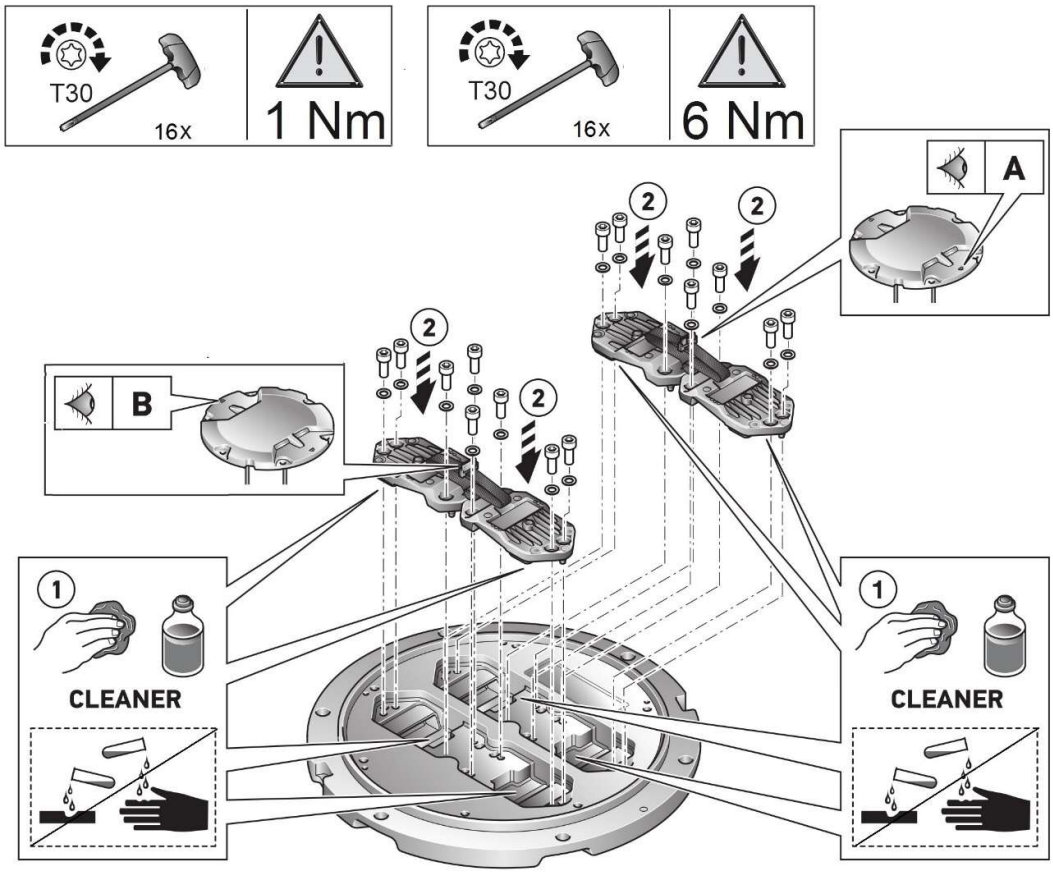

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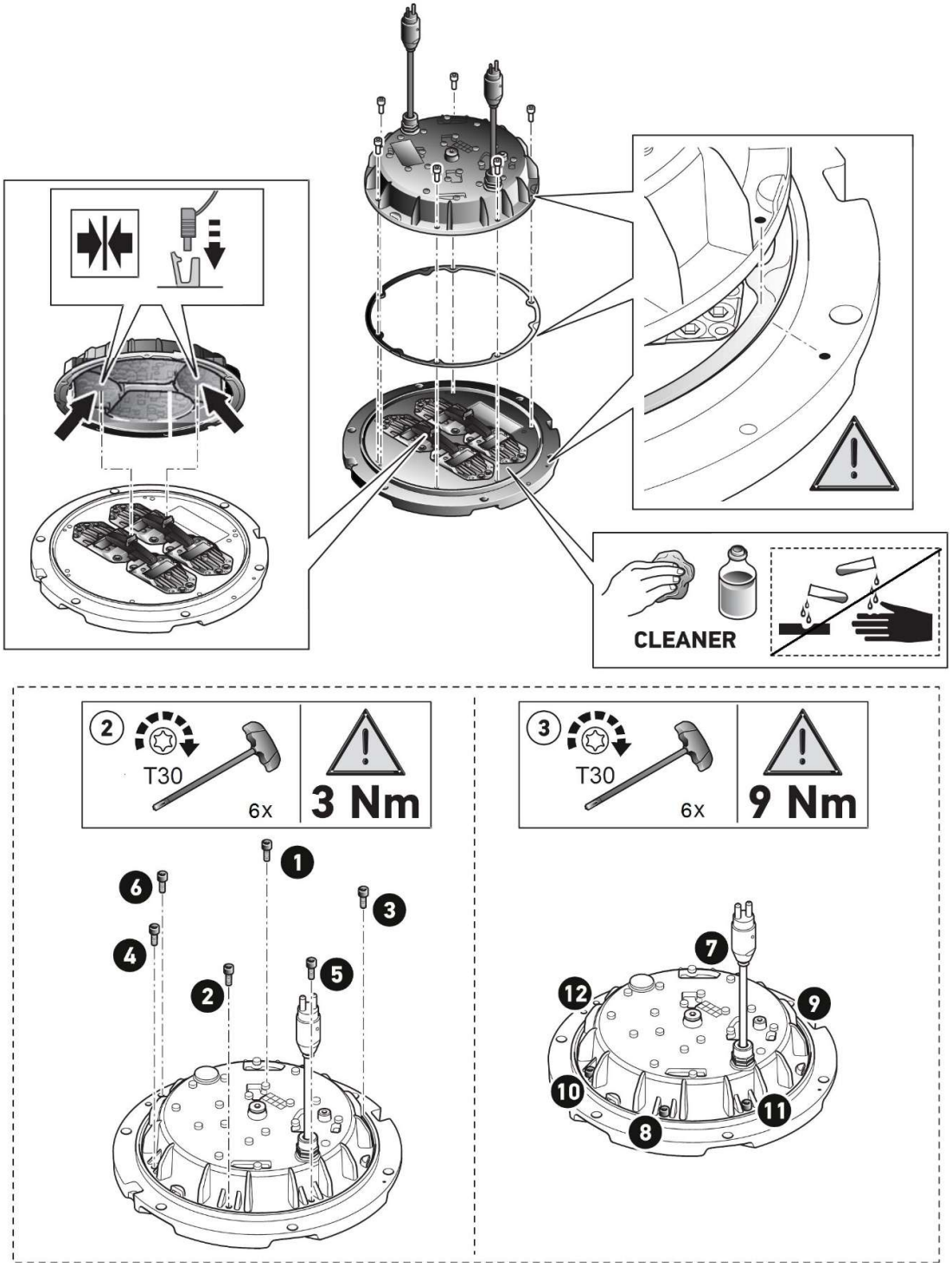

NOTICE

Make sure to perform a leakage test, as explained in chapter 6.8, everytime a fixture is opened and closed.

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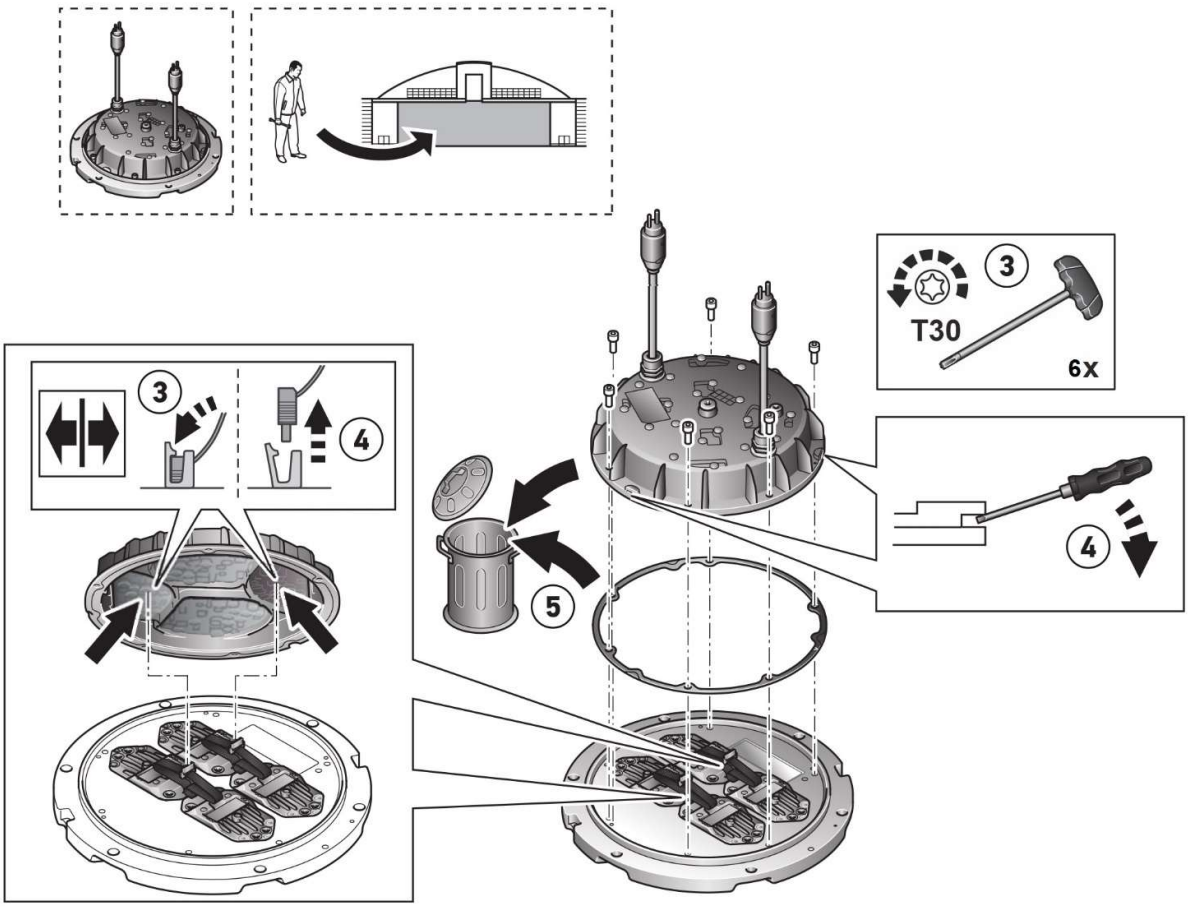
6.5 Replacing the housing group

NOTICE

Follow the instructions carefully and only disconnect the cables as shown in these pictures. Do not disconnect any other cables!



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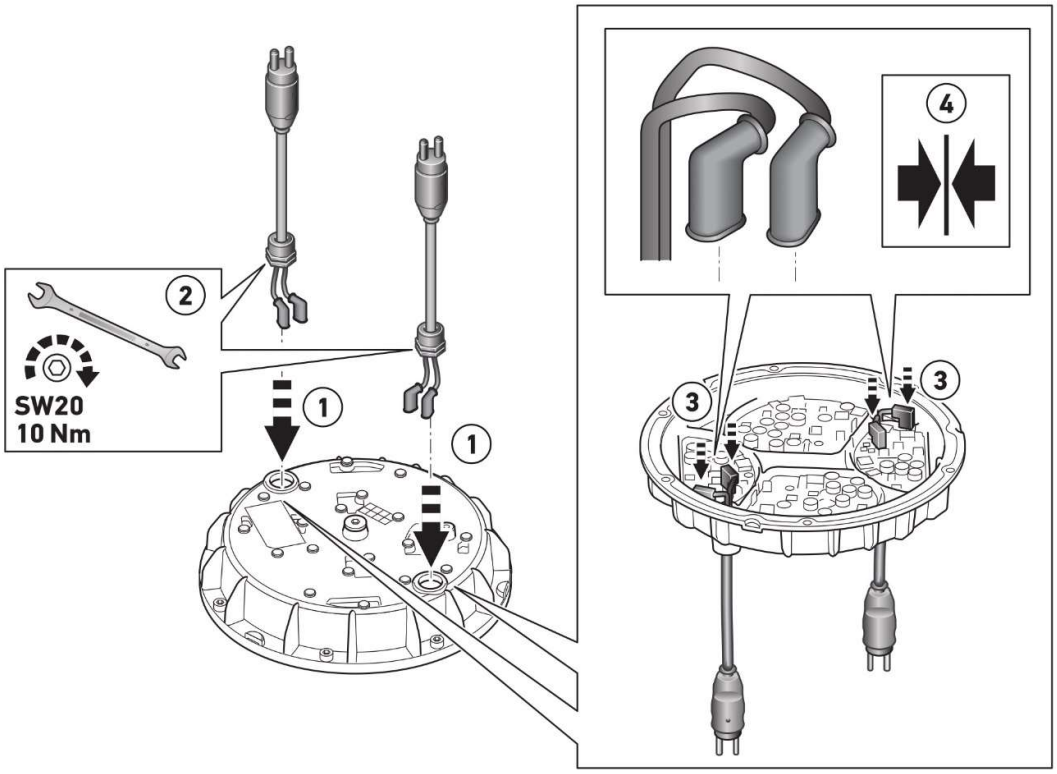

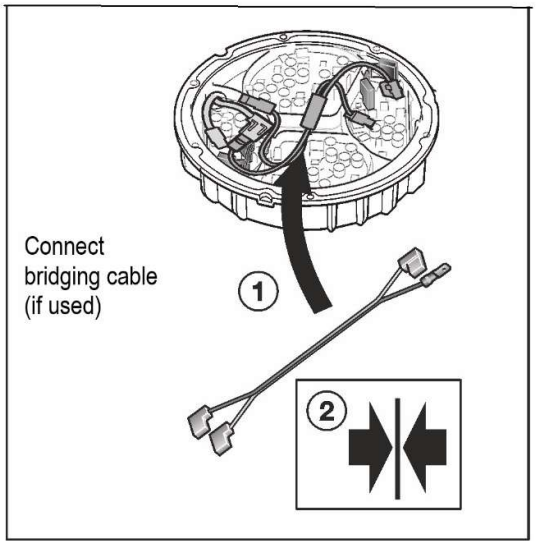

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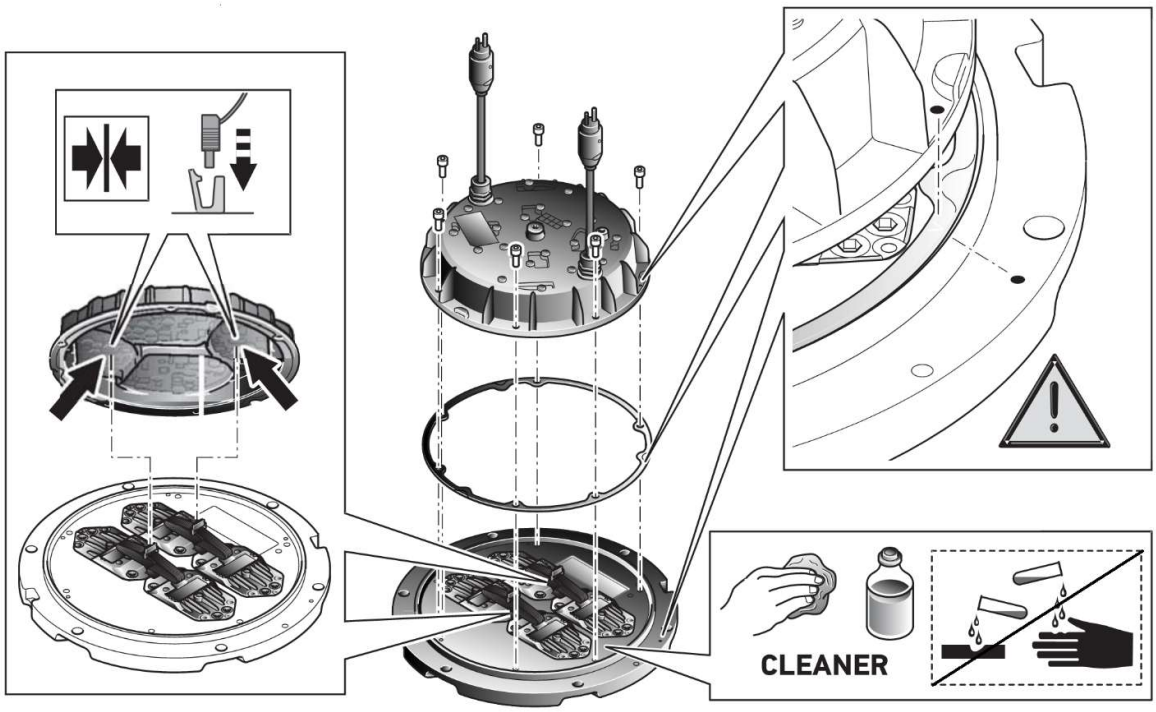

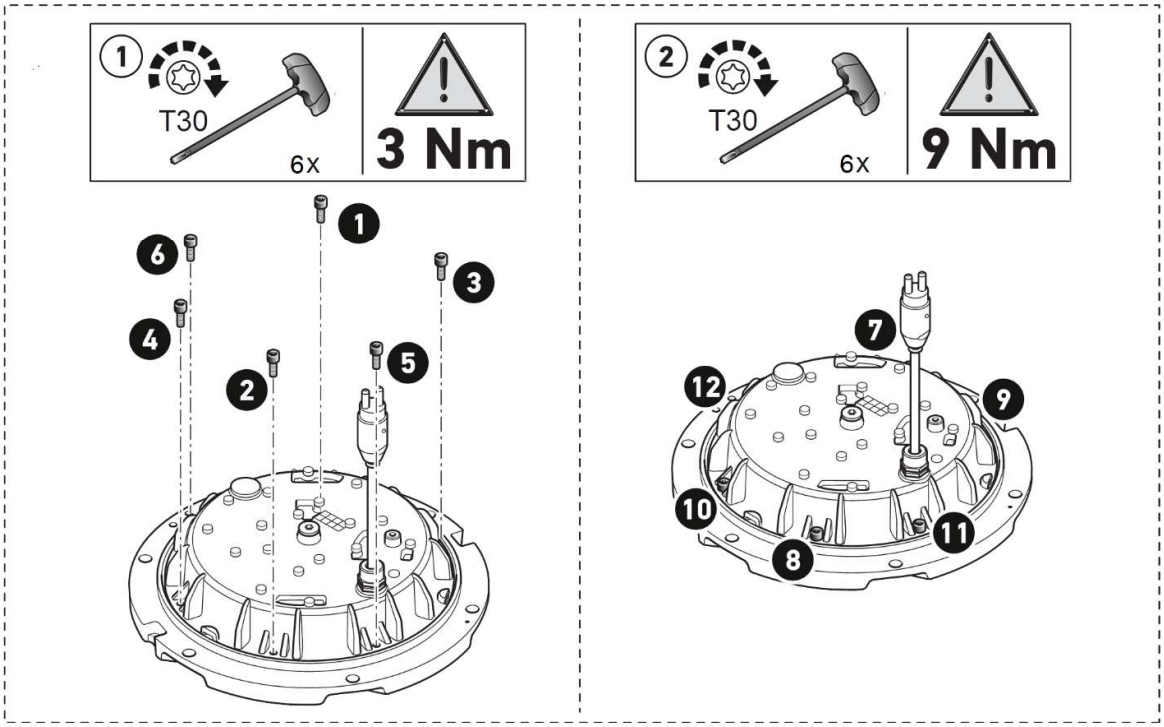

NOTICE

Make sure to perform a leakage test, as explained in chapter 6.8, everytime a fixture is opened and closed.

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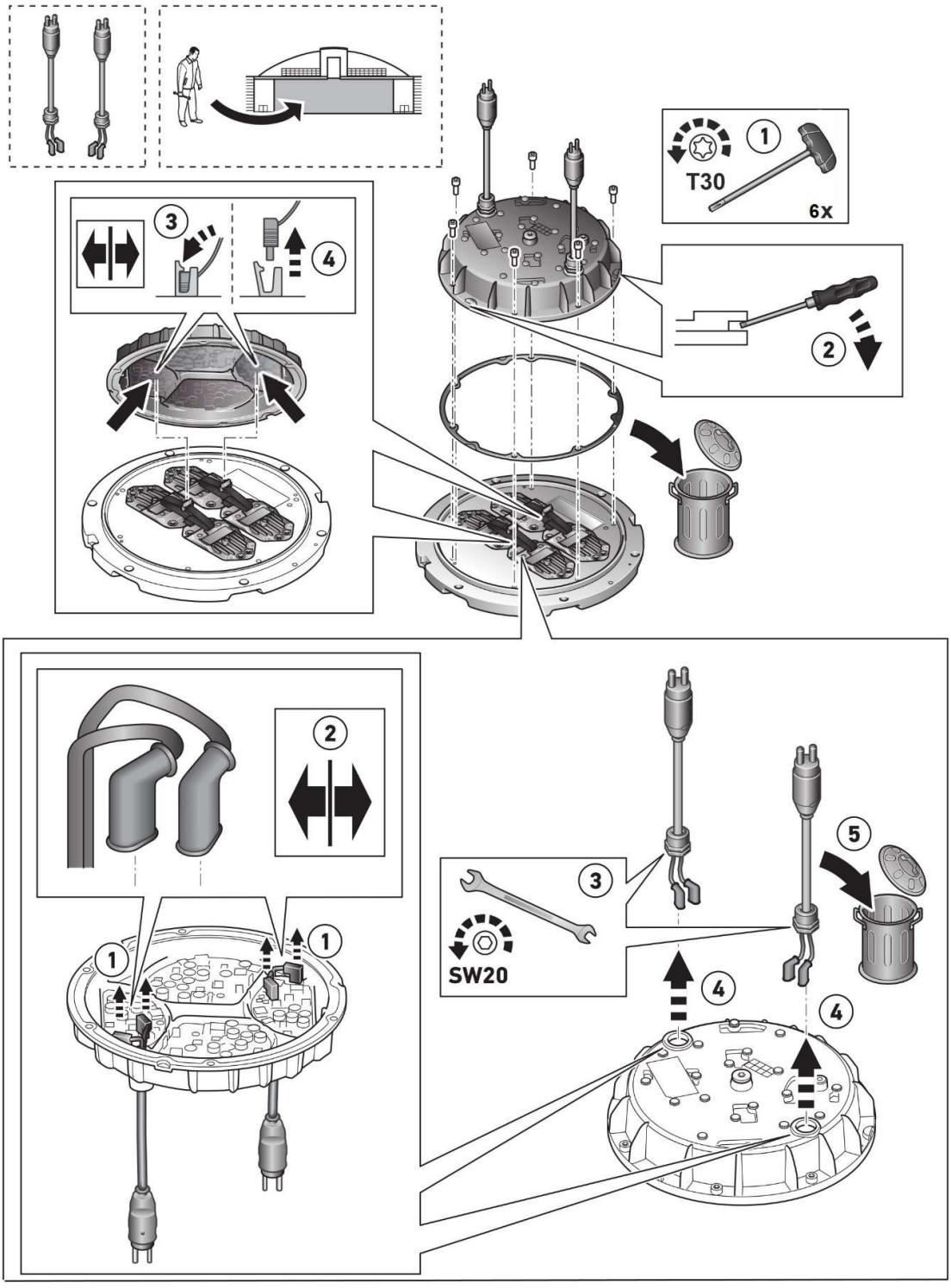
6.6 Replacing the external cable

NOTICE

Follow the instructions carefully and only disconnect the cables as shown in these pictures. Do not disconnect any other cables!



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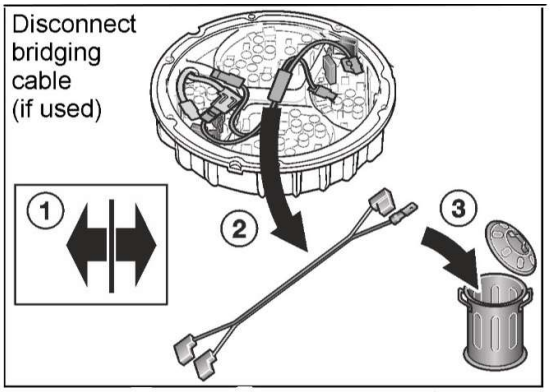

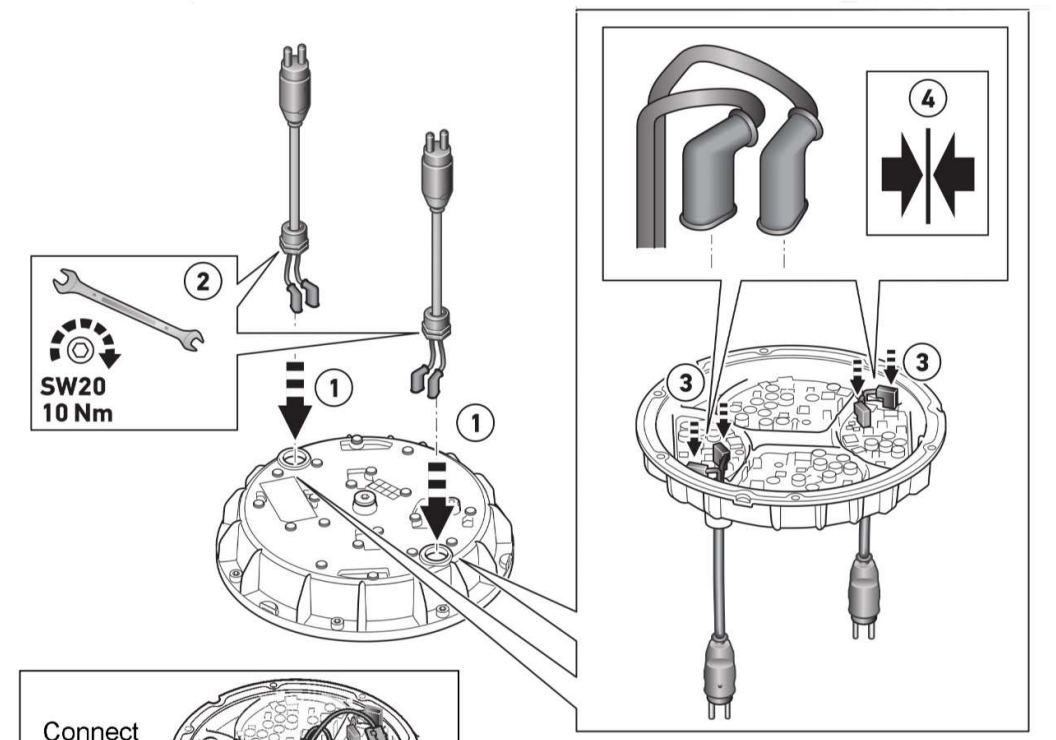

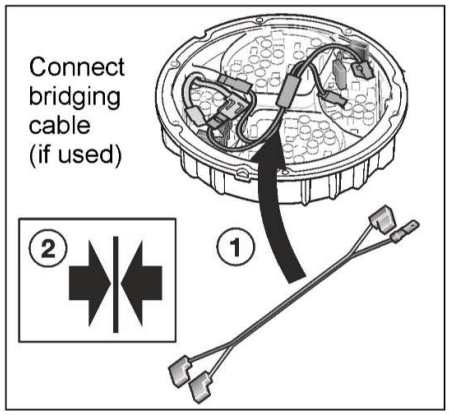

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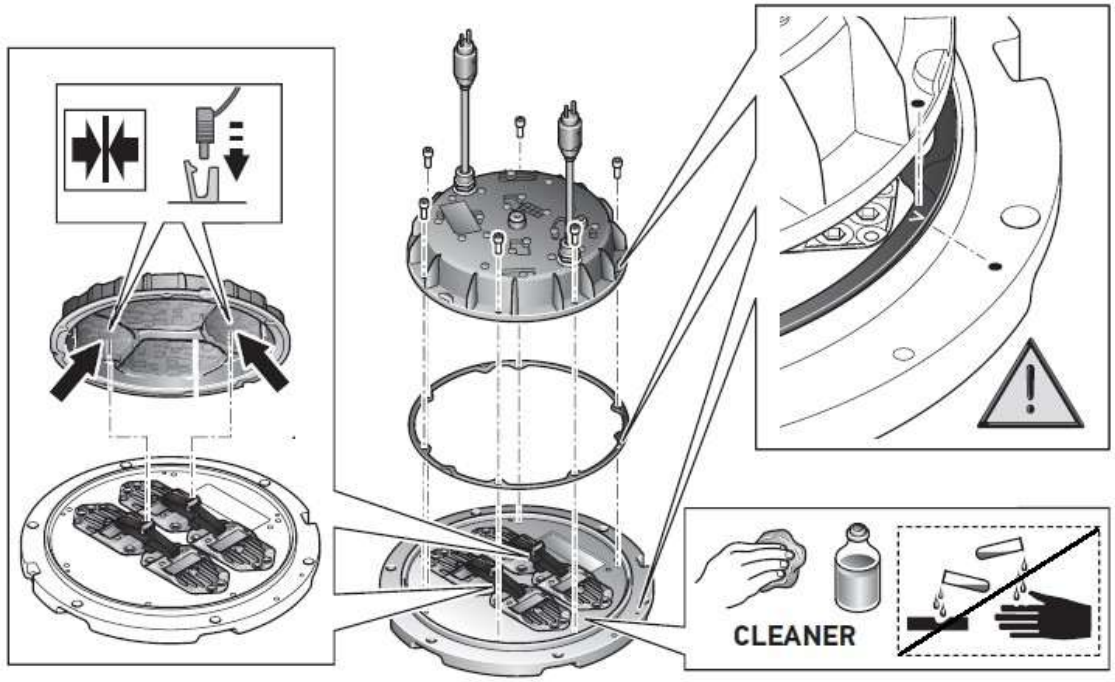

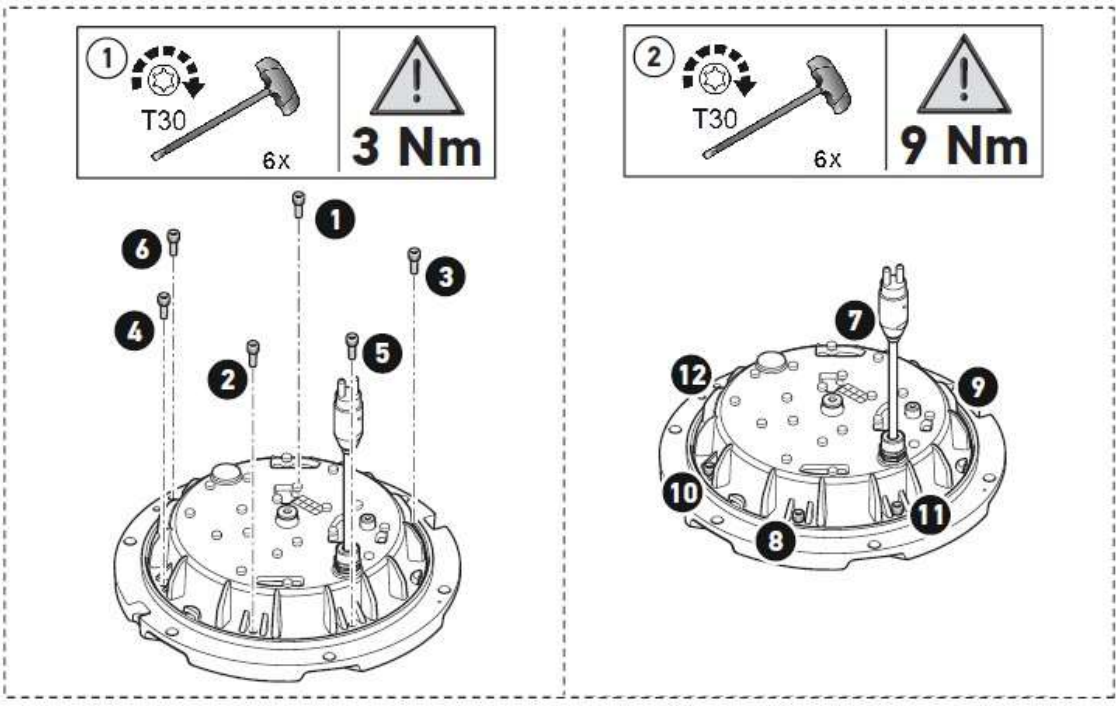

NOTICE

Make sure to perform a leakage test, as explained in chapter 6.8, everytime a fixture is opened and closed.

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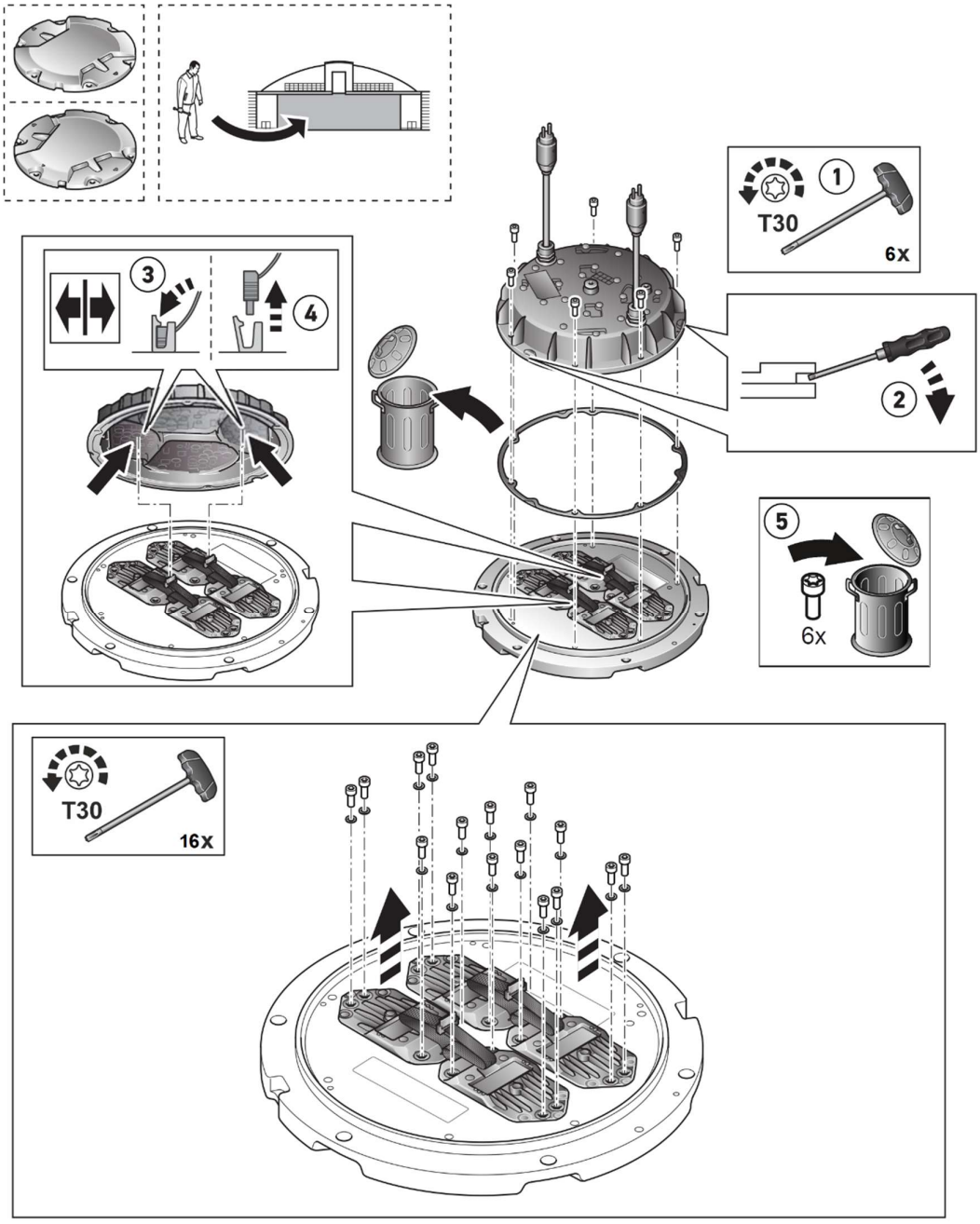
6.7 Replacing the module holder group

NOTICE

Follow the instructions carefully and only disconnect the cables as shown in these pictures. Do not disconnect any other cables!



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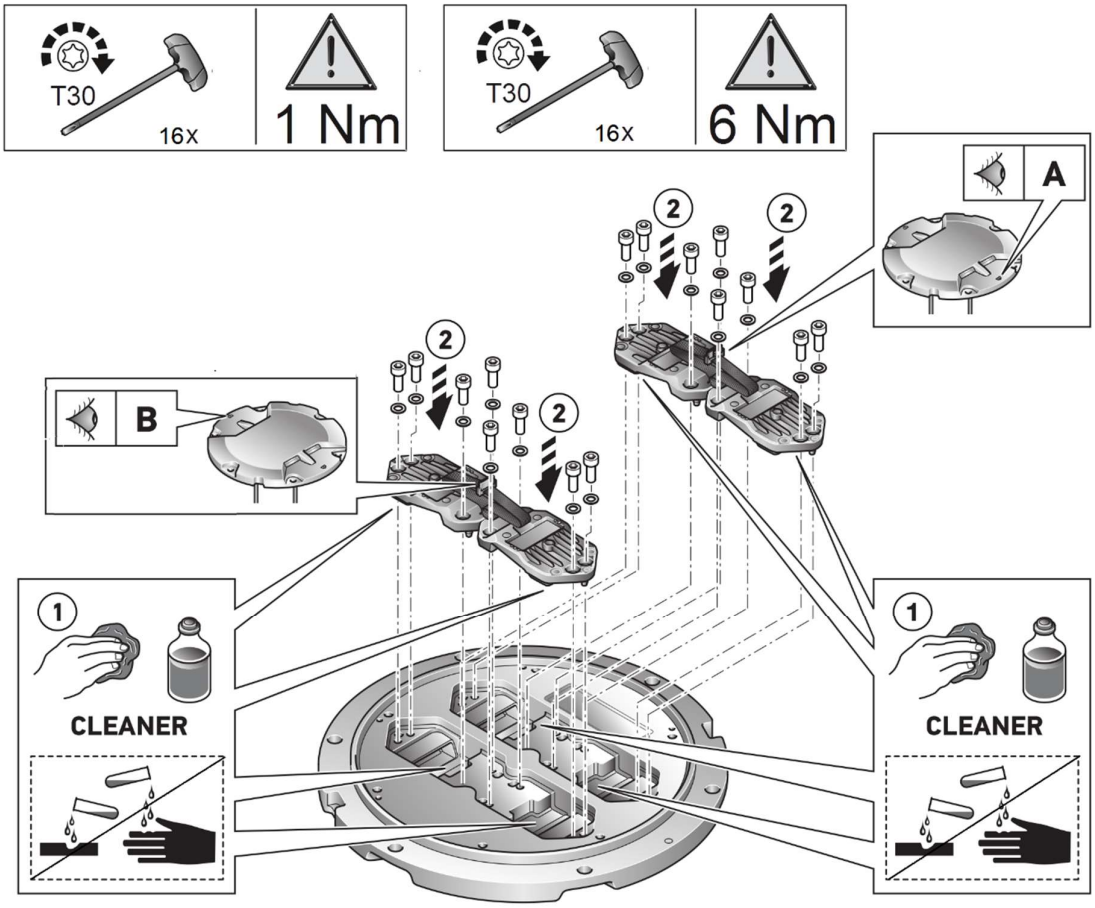

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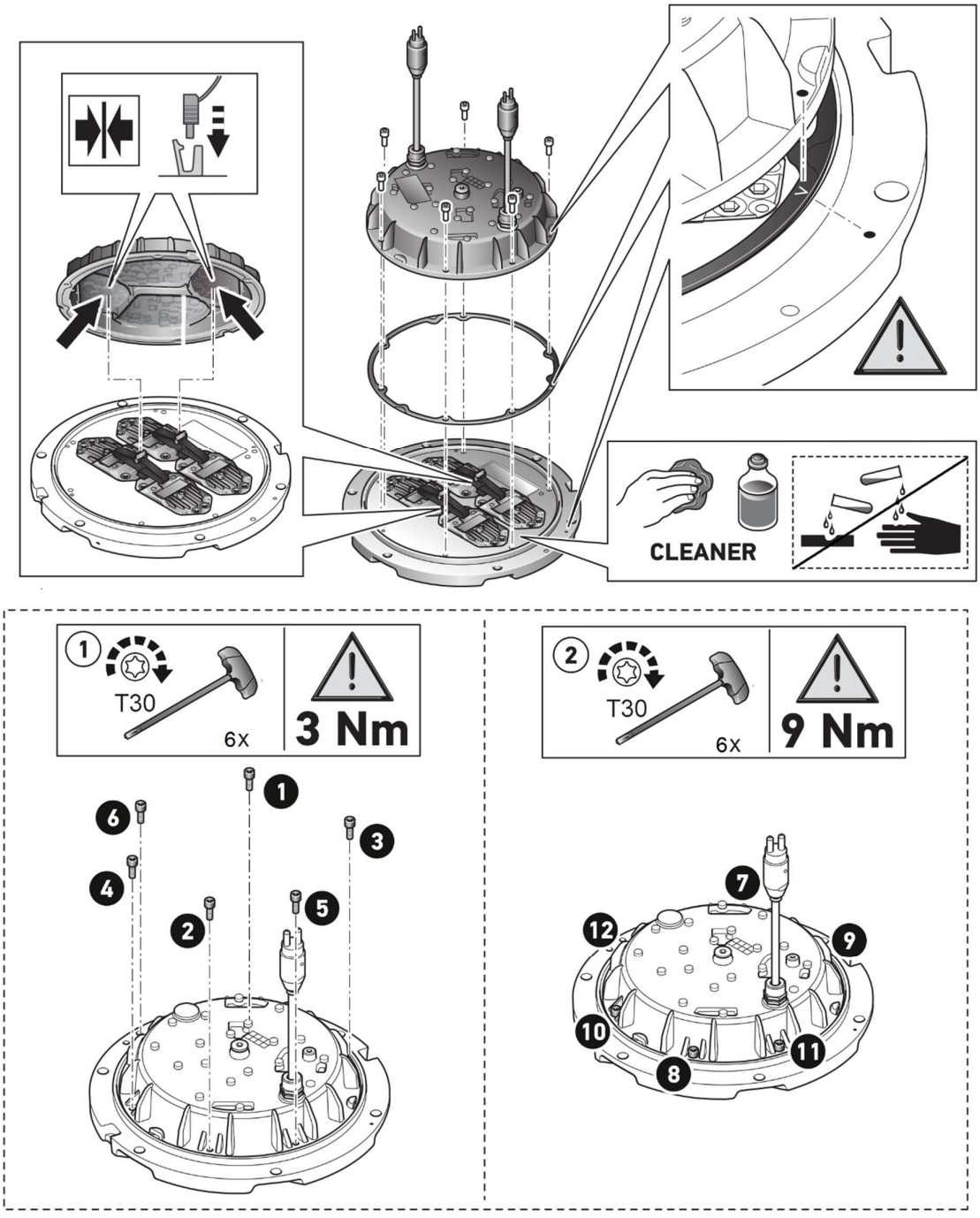

NOTICE

Make sure to perform a leakage test, as explained in chapter 6.8, everytime a fixture is opened and closed.

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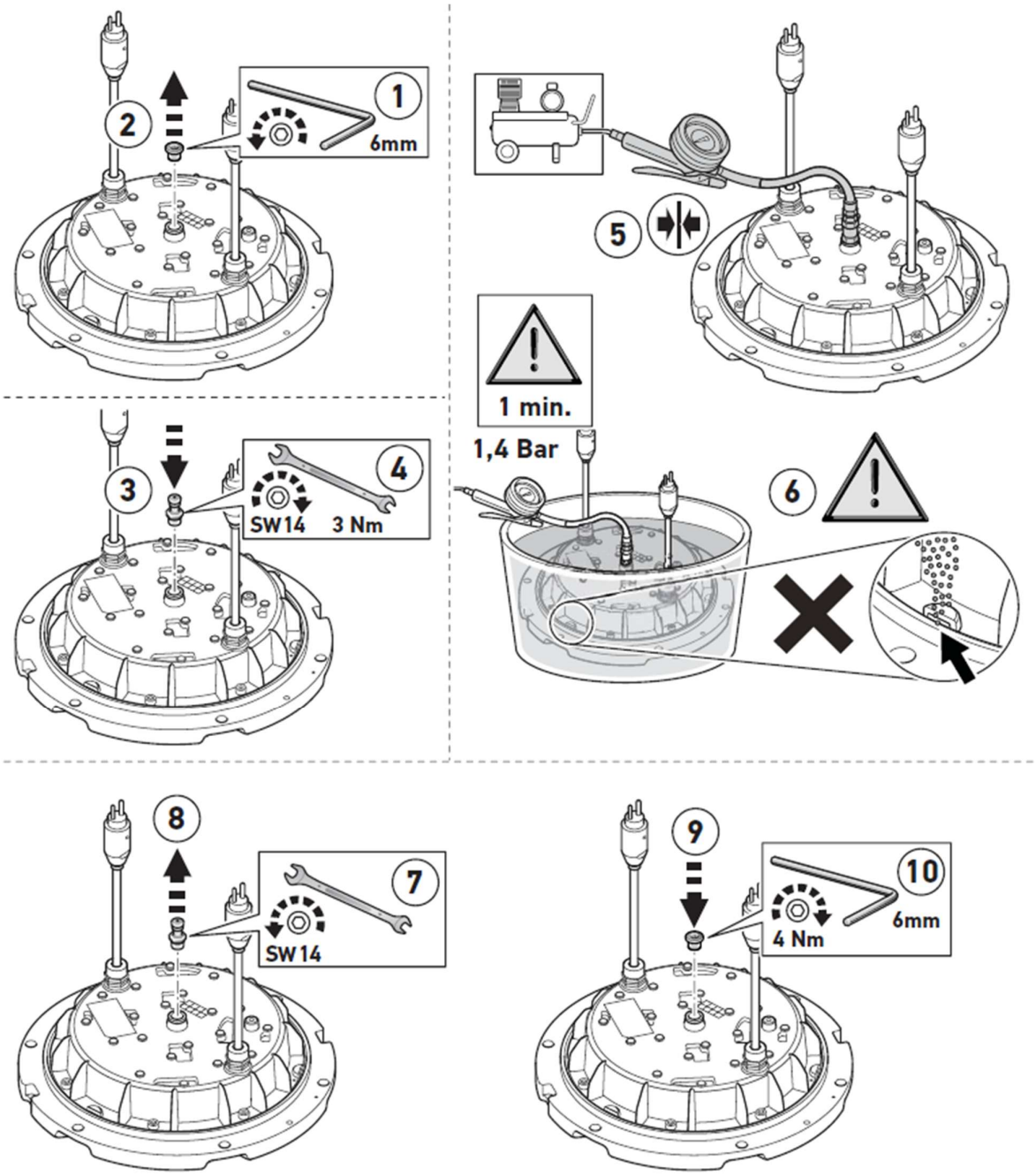
6.8 Leakage test

To perform the leakage test, a screw valve M12 is required. This can be purchased at TKH Airport Solutions under part number 178.255-00.



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7. Spare Parts list for Inset Lights 12”

Part No.	Order Code / Name	Description
ICAO Approach / Approach Side Row		
205.250-01	Cover APH 12" straight	Cover for 12" inset fixture | Approach / Side Row | unidirectional | straight
205.250-11	Cover APH 12" left	Cover for 12" inset fixture | Approach / Side Row | unidirectional | left
205.250-21	Cover APH 12" right	Cover for 12" inset fixture | Approach / Side Row | unidirectional | right
205.954-087	EHG-40W-20W-1x250mm-P1-12-0	Electronic Housing Group | 40 W / 20 W | 1 cable 250 mm | standard FAA Plug | 12 inch | No fail-open
205.954-527	EHG-40W-40W-2x250mm-P1-12-FO	Electronic Housing Group | 40 W / 40 W | 2 cables 250 mm | standard FAA Plug | 12 inch | With fail-open (relay)
216.076-007	MHG-APH-12-1xW-CAT3-00-0-0	LED module | Approach | 12 inch | White | CAT III | No heating | No special options | No fail-open | 6.6 A
216.076-077	MHG-APH-12-1xW-CAT3-10-0-0	LED module | Approach | 12 inch | White | CAT III | With heating | No special options | No fail-open | 6.6 A
216.076-037	MHG-APH-12-1xW-CAT3-00-FO-0	LED module | Approach | 12 inch | White | CAT III | No heating | No special options | With fail-open | 6.6 A
216.076-057	MHG-APH-12-1xW-CAT3-01-FO-0	LED module | Approach | 12 inch | White | CAT III | No heating | With overheat protection | With fail-open | 6.6 A
230.171-057	MHG-APH-12-1xW-CAT3-01-FO-0-V2	LED module | Approach | 12 inch | White | CAT III | No heating | With overheat protection | With fail-open | 6.6 A | Glass optics
216.076-017	MHG-APH-12-1xR-CAT3-00-0-0	LED module | Approach Side Row | 12 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
216.076-047	MHG-APH-12-1xR-CAT3-00-FO-0	LED module | Approach Side Row | 12 inch | Red | CAT III | No heating | No special options | With fail-open | 6.6 A
216.076-067	MHG-APH-12-1xR-CAT3-01-FO-0	LED module | Approach Side Row | 12 inch | Red | CAT III | No heating | With overheat protection | With fail-open | 6.6 A
216.073-007	APH prism incl gasket	Borosilicate prism incl gasket for inset Approach and Side Row lights
216.073-017	APH sapphire prism incl gasket	Sapphire prism incl gasket for inset Approach and Side Row lights
ICAO Threshold		
198.865-01	Cover THR 12" straight	Cover for 12" inset fixture | Threshold | unidirectional | straight
198.863-01	Cover THR 12" left	Cover for 12" inset fixture | Threshold | unidirectional | left
198.864-01	Cover THR 12" right	Cover for 12" inset fixture | Threshold | unidirectional | right
205.954-087	EHG-40W-20W-1x250mm-P1-12-0	Electronic Housing Group | 40 W / 20 W | 1 cable 250 mm | standard FAA Plug | 12 inch | No fail-open
205.954-587	EHG-40W-20W-1x250mm-P1-12-FO	Electronic Housing Group | 40 W / 20 W | 1 cable 250 mm | standard FAA Plug | 12 inch | With fail-open (relay)
205.917-027	MHG-THR-12-1xG-CAT3-00-0-0	LED module | Threshold | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
205.916-927	MHG-THR-12-1xG-CAT3-00-FO-0	LED module | Threshold | 12 inch | Green | CAT III | No heating | No special options | With fail-open | 6.6 A
205.917-037	MHG-THR-12-1xG-CAT3-01-FO-0-V2	LED module | Threshold | 12 inch | Green | CAT III | No heating | With overheat protection | With fail-open | 6.6 A | New version
205.916-517	MHG-THR-12-1xG-CAT3-10-0-0	LED module | Threshold | 12 inch | Green | CAT III | With heating | No special options | No fail-open | 6.6 A
205.916-547	MHG-THR-12-1xG-CAT3-10-FO-0	LED module | Threshold | 12 inch | Green | CAT III | With heating | No special options | With fail-open | 6.6 A

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190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights

ICAO Threshold Wing Bar

198.868-01	Cover THRW 12" straight	Cover for 12" inset fixture | Threshold Wing Bar | unidirectional | straight
198.866-01	Cover THRW 12" left	Cover for 12" inset fixture | Threshold Wing Bar | unidirectional | left
198.867-01	Cover THRW 12" right	Cover for 12" inset fixture | Threshold Wing Bar | unidirectional | right
205.954-087	EHG-40W-20W-1x250mm-P1-12-0	Electronic Housing Group | 40 W / 20 W | 1 cable 250 mm | standard FAA Plug | 12 inch | No fail-open
205.954-527	EHG-40W-40W-2x250mm-P1-12-FO	Electronic Housing Group | 40 W / 40 W | 2 cables 250 mm | standard FAA Plug | 12 inch | With fail-open (relay)
205.916-237	MHG-THRW-12-1xG-CAT3-00-0-0	LED module | Threshold Wing Bar | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
205.916-787	MHG-THRW-12-1xG-CAT3-00-FO-0	LED module | Threshold Wing Bar | 12 inch | Green | CAT III | No heating | No special options | With fail-open | 6.6 A
206.512-057	MHG-THRW-12-1xG-CAT3-01-FO-0	LED module | Threshold Wing Bar | 12 inch | Green | CAT III | No heating | With overheat protection | With fail-open | 6.6 A
205.916-597	MHG-THRW-12-1xG-CAT3-10-0-0	LED module | Threshold Wing Bar | 12 inch | Green | CAT III | With heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights

ICAO Combined Threshold/Runway-End

198.178-01	Cover THRE 12" straight	Cover for 12" inset fixture | Combined Threshold / Runway End | bidirectional | straight
198.179-01	Cover THRE 12" left	Cover for 12" inset fixture | Combined Threshold / Runway End | bidirectional | left
198.180-01	Cover THRE 12" right	Cover for 12" inset fixture | Combined Threshold / Runway End | bidirectional | right
205.954-027	EHG-40W-40W-2x250mm-P1-12-0	Electronic Housing Group | 40 W / 40 W | 2 cables 250 mm | standard FAA Plug | 12 inch | No fail-open
205.954-527	EHG-40W-40W-2x250mm-P1-12-FO	Electronic Housing Group | 40 W / 40 W | 2 cables 250 mm | standard FAA Plug | 12 inch | With fail-open (relay)
205.916-187	MHG-L850D-12-1xG-CAT3-00-0	LED module | Combined Threshold / Runway End | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
206.512-067	MHG-L850D-12-1xG-CAT3-01-FO-0	LED module | Combined Threshold / Runway End | 12 inch | Green | CAT III | No heating | With overheat protection | With fail-open | 6.6 A
212.000-007	MHG-THR3-12-1xG-CAT3-01-FO-0-5E	LED module | Combined Threshold / Runway End | 12 inch | Green | CAT III | No heating | With overheat protection | With fail-open | 6.6 A | 5-eyed version
205.916-057	MHG-REH-12-1xR-CAT3-00-0-0	LED module | Runway Edge & Combined Threshold / Runway End | 12 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
	MHG-REH-12-1xR-CAT3-10-0-0	LED module | Runway Edge & Combined Threshold / Runway End | 12 inch | Red | CAT III | With heating | No special options | No fail-open | 6.6 A
205.916-997	MHG-REH-12-1xR-CAT3-00-FO-0	LED module |Runway Edge & Combined Threshold / Runway End | 12 inch | Red | CAT III | No heating | No special options | With fail-open | 6.6 A
206.512-017	MHG-REH-12-1xR-CAT3-01-FO-0	LED module | Runway Edge & Combined Threshold / Runway End | 12 inch | Red | CAT III | No heating | With overheat protection | With fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights

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ICAO Runway-End		
187.161-05	Cover RWE 12" straight	Cover for 12" inset fixture | Runway End | unidirectional | straight
205.954-067	EHG-40W-0-1x250mm-P1-12-0	Electronic Housing Group | 40 W | 1 cable 250 mm | standard FAA Plug | 12 inch | No fail-open
205.954-567	EHG-40W-0-1x250mm-P1-12-FO	Electronic Housing Group | 40 W | 1 cable 250 mm | standard FAA Plug | 12 inch | With fail-open (relay)
205.916-447	MHG-RWE-12-1xR-CAT3-00-0-0	LED module | Runway End | 12 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
205.916-457	MHG-RWE-12-1xR-CAT3-10-0-0	LED module | Runway End | 12 inch | Red | CAT III | With heating | No special options | No fail-open | 6.6 A
205.916-977	MHG-RWE-12-1xR-CAT3-00-FO-0	LED module | Runway End | 12 inch | Red | CAT III | No heating | No special options | With fail-open | 6.6 A
206.512-047	MHG-RWE-12-1xR-CAT3-01-FO-0	LED module | Runway End | 12 inch | Red | CAT III | No heating | With overheat protection | With fail-open | 6.6 A
205.916-647	MHG-RWE-12-1xR-CAT3-10-FO-0	LED module | Runway End | 12 inch | Red | CAT III | With heating | No special options | With fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights

ICAO Runway Edge / FAA L-850C		
192.176-01	Cover REH 12" bi 3.5°	Cover for 12" inset fixture | Runway Edge | bidirectional | 3.5° toe-in
192.176-02	Cover REH 12" bi 4.5°	Cover for 12" inset fixture | Runway Edge | bidirectional | 4.5° toe-in
192.176-22	Cover REH 12" uni 4.5° left	Cover for 12" inset fixture | Runway Edge | unidirectional | 4.5° toe-in | left
192.176-32	Cover REH 12" uni 4.5° right	Cover for 12" inset fixture | Runway Edge | unidirectional | 4.5° toe-in | right
205.954-067	EHG-40W-0-1x250mm-P1-12-0	Electronic Housing Group | 40 W | 1 cable 250 mm | standard FAA Plug | 12 inch | No fail-open
205.954-567	EHG-40W-0-1x250mm-P1-12-FO	Electronic Housing Group | 40 W | 1 cable 250 mm | standard FAA Plug | 12 inch | With fail-open (relay)
205.954-007	EHG-40W-40W-1x250mm-P1-12-0	Electronic Housing Group | 40 W / 40 W | 1 cable 250 mm | standard FAA Plug | 12 inch | No fail-open
205.954-027	EHG-40W-40W-2x250mm-P1-12-0	Electronic Housing Group | 40 W / 40 W | 2 cables 250 mm | standard FAA Plug | 12 inch | No fail-open
205.954-527	EHG-40W-40W-2x250mm-P1-12-FO	Electronic Housing Group | 40 W / 40 W | 2 cables 250 mm | standard FAA Plug | 12 inch | With fail-open (relay)
205.916-047	MHG-REH-12-1xW-CAT3-00-0-0	LED module | Runway Edge | 12 inch | White | CAT III | No heating | No special options | No fail-open | 6.6 A
205.916-057	MHG-REH-12-1xR-CAT3-00-0-0	LED module | Runway Edge & Combined Threshold / Runway End | 12 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
205.916-197	MHG-REH-12-1xG-CAT3-00-0-0	LED module | Runway Edge | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
205.916-207	MHG-REH-12-1xY-CAT3-00-0-0	LED module | Runway Edge | 12 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
205.916-707	MHG-REH-12-1xB-CAT3-00-0-0	LED module | Runway Edge | 12 inch | Blue | CAT III | No heating | No special options | No fail-open | 6.6 A
205.916-697	MHG-REH-12-1xW-CAT3-10-0-0	LED module | Runway Edge | 12 inch | White | CAT III | With heating | No special options | No fail-open | 6.6 A
	MHG-REH-12-1xR-CAT3-10-0-0	LED module | Runway Edge & Combined Threshold / Runway End | 12 inch | Red | CAT III | With heating | No special options | No fail-open | 6.6 A
205.916-567	MHG-REH-12-1xG-CAT3-10-0-0	LED module | Runway Edge | 12 inch | Green | CAT III | With heating | No special options | No fail-open | 6.6 A

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205.916-487	MHG-REH-12-1xY-CAT3-10-0-0	LED module | Runway Edge | 12 inch | Yellow | CAT III | With heating | No special options | No fail-open | 6.6 A
205.916-497	MHG-REH-12-1xW-CAT3-00-FO-0	LED module | Runway Edge | 12 inch | White | CAT III | No heating | No special options | With fail-open | 6.6 A
205.916-997	MHG-REH-12-1xR-CAT3-00-FO-0	LED module |Runway Edge & Combined Threshold / Runway End | 12 inch | Red | CAT III | No heating | No special options | With fail-open | 6.6 A
205.916-577	MHG-REH-12-1xG-CAT3-00-FO-0	LED module | Runway Edge | 12 inch | Green | CAT III | No heating | No special options | With fail-open | 6.6 A
205.917-047	MHG-REH-12-1xY-CAT3-00-FO-0	LED module | Runway Edge | 12 inch | Yellow | CAT III | No heating | No special options | With fail-open | 6.6 A
206.512-007	MHG-REH-12-1xW-CAT3-01-FO-0	LED module | Runway Edge | 12 inch | White | CAT III | No heating | With overheat protection | With fail-open | 6.6 A
206.512-017	MHG-REH-12-1xR-CAT3-01-FO-0	LED module | Runway Edge & Combined Threshold / Runway End | 12 inch | Red | CAT III | No heating | With overheat protection | With fail-open | 6.6 A
206.512-037	MHG-REH-12-1xG-CAT3-01-FO-0	LED module | Runway Edge | 12 inch | Green | CAT III | No heating | With overheat protection | With fail-open | 6.6 A
206.512-027	MHG-REH-12-1xY-CAT3-01-FO-0	LED module | Runway Edge | 12 inch | Yellow | CAT III | No heating | With overheat protection | With fail-open | 6.6 A
216.110-007	MHG-L850C-12-1xW-CAT3-00-0-0	LED module | L-850C | 12 inch | White | CAT III | No heating | No special options | No fail-open | 6.6 A
216.110-027	MHG-L850C-12-1xR-CAT3-00-0-0	LED module | L-850C | 12 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
216.110-037	MHG-L850C-12-1xG-CAT3-00-0-0	LED module | L-850C | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
216.110-017	MHG-L850C-12-1xY-CAT3-00-0-0	LED module | L-850C | 12 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights

FAA L-850D		
192.176-21	Cover L-850D uni left	Cover for 12" inset fixture | L-850D | unidirectional | left toe-in
187.161-05	Cover L-850D uni straight	Cover for 12" inset fixture | L-850D | unidirectional | straight
198.179-01	Cover L-850D bi left	Cover for 12" inset fixture | L-850D | bidirectional | left toe-in
198.180-01	Cover L-850D bi right	Cover for 12" inset fixture | L-850D | bidirectional | right toe-in
205.954-067	EHG-40W-0-1x250mm-P1-12-0	Electronic Housing Group | 40 W | 1 cable 250 mm | standard FAA Plug | 12 inch | No fail-open
205.954-027	EHG-40W-40W-2x250mm-P1-12-0	Electronic Housing Group | 40 W / 40 W | 2 cables 250 mm | standard FAA Plug | 12 inch | No fail-open
216.120-007	MHG-L850D-12-1xG-CAT3-00-0	LED module | L-850D | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
216.120-017	MHG-L850D-12-1xR-CAT3-00-0-0	LED module | L-850D | 12 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights

FAA L-850E		
187.161-05	Cover L-850E	Cover for 12" inset fixture | L-850E | unidirectional

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205.954-067	EHG-40W-0-1x250mm-P1-12-0	Electronic Housing Group | 40 W | 1 cable 250 mm | standard FAA Plug | 12 inch | No fail-open
216.130-007	MHG-L850E-12-1xG-CAT3-00-0-0	LED module | L-850E | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights

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